## EAST Search History

| Ref # | Hits | Search Query   | DBs                       | Default<br>Operator | Plurals | Time Stamp          |
|-------|------|--|---------------------------|---------------------|---------|---------------------|
| S1    | 181  | ((TAKESHI) near2<br>(KOBAYASHI)).INV.  | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/25<br>14:52 |
| S2    | 17   | ((MASAAKI) near2<br>(KAWABE)).INV.   | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/25<br>14:52 |
| S3    | 9    | ((FUMINORI) near2<br>(KIMURA)).INV.  | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/25<br>14:52 |
| S4    | 2    | ((MASAHIRO) near2<br>(AMAGASA)).INV.   | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/25<br>14:52 |
| S5    | 793  | 361/502.ccls.  | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>14:52 |
| S6    | 1    | separator.ti. and capacitor<br>and pore size and<br>diameter and electrostatic<br>spinning   | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>14:56 |
| S7    | 30   | separator.ti. and capacitor<br>and pore size and<br>diameter   | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>14:56 |
| S8    | 2    | separator.ti. and capacitor<br>and flow pore size and<br>diameter  | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>14:58 |
| S9    | 4    | separator.ti. and capacitor and standard deviation   | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>15:17 |
| S10   | 1    | separator.ti. and capacitor<br>and standard deviation<br>same diameter   | US-PGPUB;<br>USPAT; USOCR | ADJ                 | ON      | 2008/03/25<br>15:18 |
| S11   | 91   | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber and fiber with<br>average diameter and<br>thickness and pore size | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/26<br>12:52 |
| S12   | 16   | separator.ab. and (electric<br>with double with layer<br>with capacitor) and fiber<br>and fiber with average<br>diameter and thickness<br>and pore size                              | US-PGPUB;<br>USPAT        | ADJ                 | ON      | 2008/03/26<br>13:10 |

| S13  | 2  | separator.ab. and (capacitor or battery or condensor or fuel cell or electrochemical device) and fiber and fiber with average diameter and thickness and pore size and electrostatic\$2 with (spin or spinning or spun) | US-PGPUB;<br>USPAT        | MADJ | 500<br> | 2008/03/26<br>13:16 |
|------|----|---|---------------------------|------|---------|---------------------|
| S14  | 4  | separator.ab. and (capacitor or battery or condensor or fuel cell or electrochemical device) and fiber with (average or mean) near2 diameter and fiber with (mean or average) near2 flow near2 pore size                | US-PGPUB;<br>USPAT        | MADJ | ON      | 2008/03/26<br>13:32 |
| S15  | 1  | ("20020045091").PN.   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF     | 2008/03/26<br>14:08 |
| S16  | 31 | separator.ab. and (electric<br>with double with layer<br>with capacitor) and fiber<br>and fiber with (average or<br>mean) near2 diameter  | US-PGPUB;<br>USPAT        | ADJ  | ON      | 2008/03/26<br>14:15 |
| S17  | 28 | separator.ab. and (electric<br>with double with layer<br>with capacitor) and<br>separator same fiber and<br>fiber with (average or<br>mean) near2 diameter  | US-PGPUB;<br>USPAT        | ADJ  | 500X    | 2008/03/26<br>14:17 |
| S18  | 4  | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber with (mean or<br>average) near2 flow near2<br>pore size  | US-PGPUB;<br>USPAT        | ADJ  | ON      | 2008/03/26<br>14:45 |
| S19  | 10 | separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and fiber with<br>(mean or average) near2<br>flow near2 pore size   | US-PGPUB;<br>USPAT        | ADJ  | ON      | 2008/03/26<br>15:30 |
| \$20 | 31 | separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and fiber and<br>(mean or average) near2<br>flow near2 pore size  | US-PGPUB;<br>USPAT        | ADJ  | ON      | 2008/03/26<br>15:33 |

| S21         | 9230 | separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and fiber and<br>layer   | US-PGPUB;<br>USPAT        | ADJ |    | 2008/03/26<br>15:38 |
|-------------|------|--|---------------------------|-----|----|---------------------|
| S22         | 1865 | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber and layer   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/26<br>15:38 |
| S23         | 506  | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber with diameter<br>and layer  | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/26<br>15:38 |
| S24         | 202  | separator.ti. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber with diameter<br>and layer  | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/26<br>15:39 |
| \$25        | 157  | separator.ti. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber with diameter<br>and layer with separator   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/26<br>15:39 |
| S26         | 7    | ("20050063840"  <br>"4746586"   "5902696"  <br>"6051335"   "6444367"  <br>"6594139"   "6905798").<br>PN. OR ("7112389").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:22 |
| <b>S</b> 27 | 341  | (electric field or voltage or<br>current) with nozzle and<br>separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device)   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:24 |
| <b>S</b> 28 | 2    | (electric field or voltage or<br>current) with nozzle and<br>separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and (mean or<br>average) near2 flow near2<br>joore size | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:25 |

| S29  | 189 | (electric field or voltage or<br>current) with nozzle and<br>separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and fiber                           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:25 |
|------|-----|--|---------------------------|-----|----|---------------------|
| S30  | 175 | (electric field or voltage or<br>current) with nozzle and<br>separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and fiber and<br>diameter           | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:25 |
| S31  | 5   | (electric field or voltage or<br>current) with nozzle and<br>separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and fiber and diameter       | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>07:27 |
| S32  | 1   | ("2002/0090876").URPN.   | USPAT                     | ADJ | ON | 2008/03/27<br>07:32 |
| \$34 | 335 | fine with fiber and<br>separator and (capacitor<br>or battery or condensor or<br>fuel cell or electrochemical<br>device) and layer and<br>(average or mean) with<br>diameter                       | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>07:42 |
| S35  | 1   | ("2002/0090876").URPN.   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>07:43 |
| S36  | 114 | fine with fiber and<br>separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and layer and (average or<br>mean) with diameter                   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>07:43 |
| S37  | 82  | fine with fiber and<br>separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and layer with separator<br>and (average or mean)<br>with diameter | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>07:44 |
| S38  | 206 | separator.ab. and battery and double layer capacitor   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>08:00 |
| S39  | 33  | separator.ti. and battery and double layer capacitor   | US-PGPUB;<br>USPAT        | ADJ | ON | 2008/03/27<br>08:01 |

| S42 | 149 | double layer capacitor and<br>separator and fiber with<br>(polyacrylonitrile or<br>polyvinylidene fluoride or<br>polyimide or nylon or<br>polystyrene or<br>polyethylene glycol or<br>polyvinyl alcohol or<br>polyvinyl pyrrolidone)  | US-PGPUB;<br>USPAT; USOCR | ADJ |    | 2008/03/27<br>09:55 |
|-----|-----|---|---------------------------|-----|----|---------------------|
| S43 | 2   | double layer capacitor and separator and fiber with (polyacrylonitrile or polyvinylidene fluoride or polyimide or nylon or polystyrene or polyethylene glycol or polyvinyl alcohol or polyvinyl alcohol or and (average or mean) with diameter and (maximum or largest) with pore size  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>09:55 |
| S44 | 46  | double layer capacitor and<br>separator and fiber with<br>(polyacrylonitrile or<br>polywinylidene fluoride or<br>polymide or nylon or<br>polystyrene or<br>polyethylene glyool or<br>polyvinyl alcohol or<br>polyvinyl pyrrolidone) and<br>(average or mean) with<br>diameter   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2008/03/27<br>09:56 |
| S45 | 144 | separator.ab. and fiber with (polyacrylonitrile or polywinylidene fluoride or polyimide or nylon or polystyrene or polystyrene or polyethylene glycol or polyvinyl alcohol or polyvinyl pyrrolidone) and (average or mean) with diameter and (capacitor or battery or condensor or fuel cell or electrochemical device) and fiber | US-PGPUB;<br>USPAT; USOCR | ADJ | ÓN | 2008/03/27<br>09:59 |

| S46         | 15   | separator. ab. and fiber with (polyacrylonitrile or polyvinylidene fluoride or polymide or nylon or polystrylene or polyethylene glycol or polyvinyl alcohol or polyvinyl pyrrolidone) and (average or mean) with diameter and (capacitor or battery or condensor or fuel cell or electrochemical device) and fiber and (maximum or largest) with pore size | US-PGPUB;<br>USPAT; USOCR | MADJ | ON  | 2008/03/27          |
|-------------|------|---|---------------------------|------|-----|---------------------|
| S47         | 0    | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and (fine or small or<br>ultrafine) with fiber with<br>layer and iber with layer   | US-PGPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>11:06 |
| S48         | 103  | separator.ab. and<br>(capacitor or battery or<br>condensor or fuel cell or<br>electrochemical device)<br>and (fine or small or<br>ultrafine) with fiber with<br>layer and fiber with layer  | US-PGPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>11:07 |
| <b>S</b> 49 | 1001 | separator and (double<br>layer capacitor and<br>battery)  | US-PGPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>11:45 |
| S50         | 575  | separator and (double<br>layer capacitor with<br>battery)   | US-PGPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>11:47 |
| S51         | 393  | separator and (electric<br>double layer capacitor<br>with battery)  | US-PGPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>11:49 |
| S52         | 5    | separator.ab. and (capacitor or battery or condensor or fuel cell or electrochemical device) and (fine or small or ultrafine) with fiber with layer and ((non with (fine or small)) or large) fiber with layer.   | US-PCPUB;<br>USPAT; USOCR | ADJ  | ON  | 2008/03/27<br>12:42 |
| S53         | 2    | (("5962161") or<br>("4908282")).PN.   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/03/27<br>12:52 |

| S54         | 23  | (US-20070247785-\$ or US-<br>20010006452-\$ or US-<br>20030054237-\$ or US-  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2008/10/08<br>06:31 |
|-------------|-----|--|--|-----|----|---------------------|
|             |     | 20030054237-\$ or US-<br>20030054236-\$ or US-<br>20030054234-\$ or US-<br>20030054233-\$ or US-<br>20030054233-\$ or US-<br>20020160260-\$ or US-<br>200201605901-\$ or US-<br>20020090876-\$ or US-<br>2002009171-\$ or US-<br>20050095478-\$), did. or<br>(US-7112389-\$ or US-<br>6233135-\$ or US-6730439-<br>\$ or US-6284680-\$ or US-<br>3753784-\$ or US-6723467-<br>\$), did. 50 US-6723467-<br>\$), did. 50 US-6723467-<br>\$), did. 50000505467-<br>\$), did. 50000505 |  |     |    |                     |
| <b>S</b> 55 | 18  | S54 and (apparent density<br>or density or (surface<br>density and thickness))   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>06:32 |
| S56         | 9   | S54 and (apparent density<br>or bulk density or (surface<br>density and thickness))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>06:36 |
| S57         | 157 | separator and double with<br>capacitor and (apparent<br>density or bulk density or<br>(surface density and<br>thickness))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>06:51 |
| S58         | 48  | separator.ab,ti. and<br>double with capacitor and<br>(apparent density or bulk<br>density or (surface density<br>and thickness))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>06:52 |
| S59         | 12  | separator.ti. and double<br>with capacitor and<br>(apparent density or bulk<br>density or (surface density<br>and thickness))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>06:53 |
| S60         | 336 |  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/10/08<br>07:55 |

| S61 | 147 | separator with (capacitor<br>or battery).ti. and<br>(apparent density or bulk<br>density or (surface density<br>and thickness))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/10/08<br>07:55 |
|-----|-----|---|--|-----|---|---------------------|
| S62 | 141 | separator with (apparent<br>density or bulk density or<br>(surface density and<br>thickness)) and (capacitor<br>or battery)   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/10/08<br>07:57 |
| S63 | 151 | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | William   | 2008/11/19<br>14:03 |
| S64 | 4   | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) with<br>advantages | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/11/19<br>14:05 |
| S67 | 0   | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with (less than or more<br>than)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/11/19<br>14:24 |
| S68 | 47  | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with (less or more)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | OR<br>The second se | 2008/11/19<br>14:24 |
| S71 | 9   | separator with (apparent<br>density or bulk density or<br>(surface density or mass<br>per unit area) and<br>thickness)) and<br>(capacitor) and (apparent<br>density or bulk density)<br>with (less or more)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/11/19<br>14:26 |

| S72 | O | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and<br>(capacitor) and (apparent<br>density or bulk density)<br>with advantage   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | MADJ | 0<br>0 | 2008/11/19<br>14:30 |
|-----|---|---|--|------|--------|---------------------|
| S73 | 4 | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with advantage                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ  | OX     | 2008/11/19<br>14:30 |
| S74 | 4 | separator with (apparent density or bulk density or fulk density or mass per unit area) and thickness)) and (capacitor or battery) and (apparent density or bulk density) with (advantage or more near3 than or less near3 than)                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ  | ON     | 2008/11/20<br>09:06 |
| S75 | 4 | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with (advantage or "more<br>than" or "less than") | US PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ  | ON     | 2008/11/20<br>09:07 |
| S76 | 0 | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with ("more than" or "less<br>than")              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ  | OX     | 2008/11/20<br>09:07 |

| S77 | 58  | separator with (apparent<br>density or bulk density or<br>((surface density or mass<br>per unit area) and<br>thickness)) and (capacitor<br>or battery) and (apparent<br>density or bulk density)<br>with (more or less or<br>greater or lesser or above<br>or below)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT                 | ADJ | NON | 2008/11/20<br>09:07 |
|-----|-----|--|--|-----|-----|---------------------|
| S78 | 29  | separator with (apparent density or bulk density or mass per unit area) and thickness)) and (capacitor or battery) and (apparent density or bulk density) with (handling property or pore size or distribution near3 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability)  | us Popub;<br>uspat;<br>usoor, EPO;<br>JPO; DERWENT                 | ADJ | 8   | 2008/11/20<br>09:34 |
| S80 | 68  | separator with (apparent density or bulk density or to luck density or mass neard per neard area) and thickness)) and (capacitor or battery) and separator with (handling property or pore size or distribution near3 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT                 | ADJ |     | 2008/11/20<br>09:44 |
| S81 | 139 | separator with (apparent density or bulk density or to lid kensity or unit near6 (mass or weight) and thickness) and (capacitor or battery) and separator with (handling property or pore size or distribution near5 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability)  | us Popub;<br>uspat;<br>uspocr; epo;<br>usocr; epo;<br>JPO; derwent | ADJ |     | 2008/11/20<br>09:50 |

| S82 | 29  | separator with (apparent density or bulk density or bulk density or unit near6 (mass or weight)) and thickness)) and (capacitor or battery) and (apparent density or bulk density) with (handling property or pore size or distribution near3 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability) | IUS-PAT;<br>USPAT;<br>USPAT;<br>USCOR; EPO;<br>JPO; DERWENT | ADJ | ON  | 2008/11/20<br>09:51 |
|-----|-----|--|---|-----|-----|---------------------|
| S83 | 1   | ("5928811").PN.  | US-PGPUB;<br>USPAT; USOCR                                   | OR  | OFF | 2008/11/20<br>10:11 |
| S84 | 5   | ("4330602"   "5158647"  <br>"6104600"   "6310763").<br>PN. OR ("6411497").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR                                   | ADJ | ON  | 2008/11/20<br>10:16 |
| S85 | 461 | separator with (density or<br>((surface density or unit<br>near6 (mass or weight))<br>and thickness)) and<br>(capacitor or battery) and<br>(density) with (handling<br>property or pore size or<br>distribution near3 pore<br>size or leakage near5<br>current or short circuit or<br>holding near3 electrolyte<br>or porosity or (ionic or<br>ion) near4 permeability)          | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | ADJ | ON  | 2008/11/20 10:19    |
| S86 | 362 | separator with (density or ((surface density or unit near6 (mass or weight)) and thickness)) and (capacitor or battery) and separator same (density) with (handling property or pore size or distribution near3 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or ((onic or ion) near4 permeability)                               | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT          | ADJ | ON  | 2008/11/20          |

| S87 | 0   | separator with (density or unit near6 (mass or weight)) and thickness)) and (capacitorwith double) and separator same (density) with (handling property or pore size or distribution near3 pore size or leakage near5 current or short circuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability)   | US-PAPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ |      | 2008/11/20<br>10:22 |
|-----|-----|---|--|-----|------|---------------------|
| S88 | 52  | separator with (density or ((surface density or unit near6 (mass or weight)) and thickness)) and (capacitor with double) and separator same (density) with (handling property or pore size or distribution near3 pore size or leakage near5 current or short dircuit or holding near3 electrolyte or porosity or (ionic or ion) near4 permeability)                         | US PCPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | OS . | 2008/11/20          |
| 589 | 76  | separator with (density or<br>((surface density or unit<br>near6 (mass or weight))<br>and thickness)) and<br>(capacitor) and separator<br>same (density) with<br>(handling property or pore<br>size or distribution near3<br>pore size or leakage near5<br>current or short circuit or<br>holding near3 electrolyte<br>or porosity or (ionic or<br>ion) near4 permeability) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON   | 2008/11/20<br>10:51 |
| S90 | 532 | separator with (density or<br>((surface density or unit<br>near6 (mass or weight))<br>and thickness))and<br>(capacitor)   | US-PGPUB;<br>USPAT;<br>USOOR; EPO;<br>JPO; DERWENT | ADJ | ON   | 2008/11/20<br>11:06 |
| 391 | 237 | separator with (density or<br>((surface density or unit<br>near6 (mass or weight))<br>and thickness)) and<br>(capacitor with double)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON   | 2008/11/20<br>11:06 |

| S92 | 211 | separator with (density or<br>((surface density or unit<br>near6 (mass or weight))<br>and thickness)) and<br>(capacitor near5 double)                                     | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>11:07 |
|-----|-----|---|--|-----|----|---------------------|
| S93 | 20  | separator with (apparent<br>density or ((surface<br>density or unit near6<br>(mass or weight)) and<br>thickness)) and (capacitor<br>near5 double)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>11:08 |
| S94 | 33  | separator with (apparent<br>density or ((surface<br>density or unit near6<br>(mass or weight)) and<br>thickness)) and<br>(capacitor)                                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>11:12 |
| S97 | 182 | separator with (apparent<br>density or ((surface<br>density or unit near6<br>(mass or weight)) and<br>thickness)) and (battery)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>15:39 |
| S98 | 182 | separator with (apparent<br>density or ((surface<br>density or unit near6<br>(mass or weight)) and<br>thickness)) and (battery<br>or supercapacitor or<br>ultracapacitor) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>15:40 |
| S99 | 62  | separator with (apparent<br>density) and (battery or<br>supercapacitor or<br>ultracapacitor)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2008/11/20<br>15:40 |

<sup>11/21/2008 8:33:54</sup> AM

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